

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P293293

Luminaire Tested: **24GR-LD5-34-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-34-F125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2967.0 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

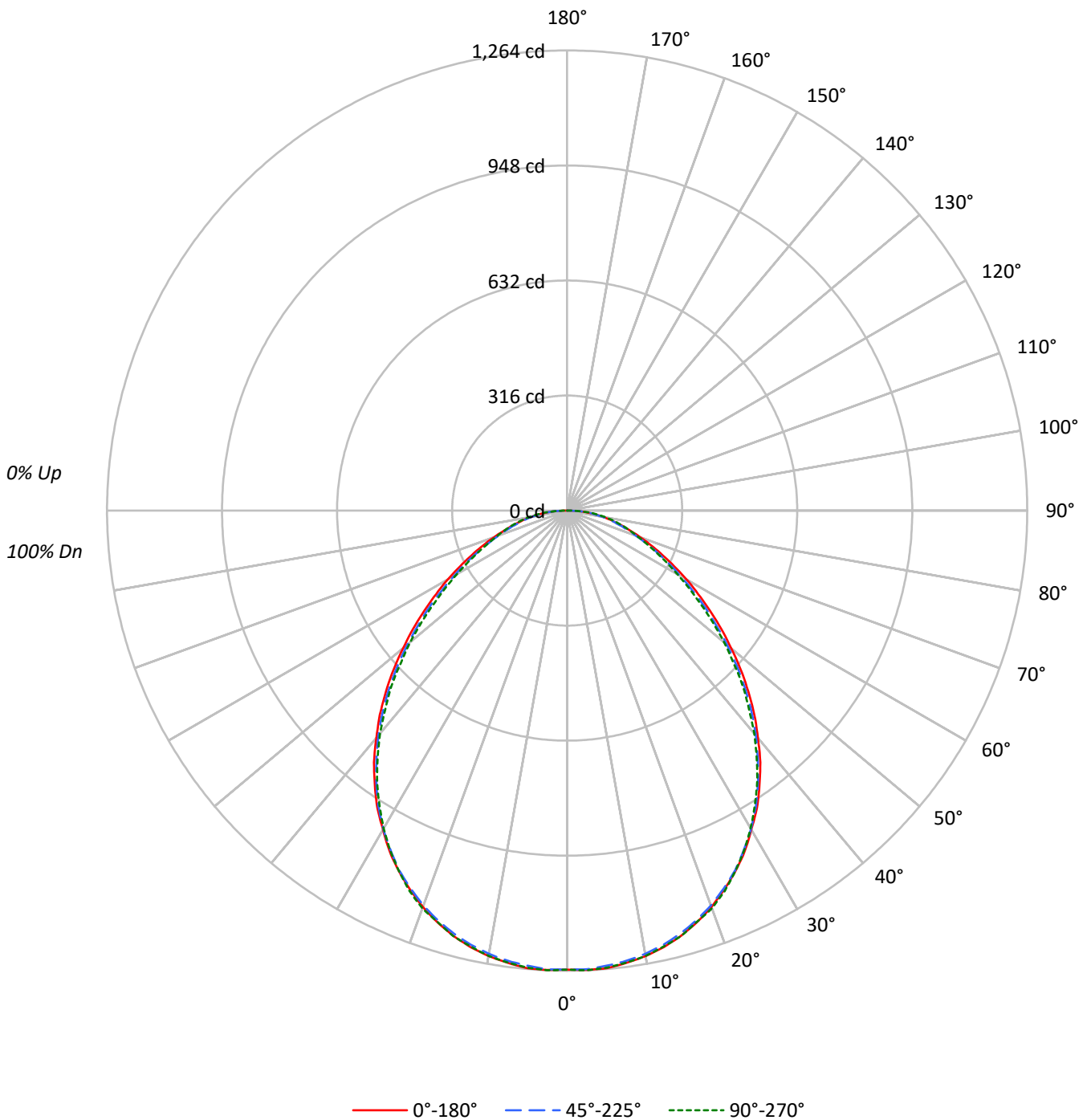
Input Watts (W): 23.407449
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85																												
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72																												
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62																												
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54																												
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47																												
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42																												
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37																												
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33																												
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																												
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1697	1697	1697
5°	1704	1695	1702
10°	1697	1689	1697
15°	1684	1675	1685
20°	1659	1653	1665
25°	1624	1619	1623
30°	1572	1569	1566
35°	1513	1501	1495
40°	1432	1416	1404
45°	1340	1315	1299
50°	1231	1198	1177
55°	1123	1081	1050
60°	1020	965	940
65°	918	867	852
70°	841	786	808
75°	786	750	805
80°	779	766	841
85°	795	801	917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	4.0
10°-20°	339.3	11.4
20°-30°	501.2	16.9
30°-40°	569.9	19.2
40°-50°	532.2	17.9
50°-60°	413.8	13.9
60°-70°	274.6	9.3
70°-80°	158.9	5.4
80°-90°	57.8	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	959.9	32.4
0°-40°	1529.7	51.6
0°-60°	2475.7	83.4
0°-90°	2967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1261	1261	1261	1261	1261	
5°	1262	1255	1255	1257	1260	120
15°	1209	1203	1202	1202	1210	341
25°	1094	1089	1091	1088	1093	503
35°	921	916	914	908	910	575
45°	704	698	691	682	683	542
55°	479	472	461	449	448	429
65°	288	280	272	267	268	288
75°	151	148	144	151	155	162
85°	52	51	52	59	59	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.0	1261.0	1261.0	1261.0	1261.0
2.5°	1262.8	1259.1	1261.0	1259.6	1263.8
5°	1261.9	1255.4	1254.9	1257.3	1260.0
7.5°	1253.1	1246.1	1247.5	1247.5	1252.2
10°	1242.4	1235.5	1236.4	1236.9	1242.0
12.5°	1228.0	1221.1	1221.6	1221.1	1226.2
15°	1209.0	1203.0	1202.5	1202.1	1210.0
17.5°	1185.8	1177.5	1180.3	1180.7	1184.9
20°	1158.9	1152.5	1154.3	1153.8	1162.7
22.5°	1126.9	1122.3	1123.7	1122.8	1131.1
25°	1093.6	1088.9	1090.8	1088.5	1093.1
27.5°	1056.0	1052.7	1050.9	1049.5	1052.7
30°	1011.9	1010.1	1010.1	1004.0	1007.8
32.5°	970.2	964.2	964.2	961.8	959.5
35°	921.0	916.4	914.1	907.6	910.4
37.5°	871.9	861.2	860.3	855.2	855.2
40°	815.3	809.3	806.0	800.5	799.5
42.5°	761.5	755.5	749.9	740.6	738.8
45°	704.0	698.4	691.0	682.2	682.7
47.5°	647.0	639.1	632.1	621.4	620.1
50°	588.1	582.5	572.3	563.0	562.5
52.5°	532.9	524.1	514.8	503.6	503.6
55°	478.6	471.6	461.0	448.9	447.5
57.5°	426.7	420.2	408.1	399.3	397.0
60°	378.9	369.6	358.5	351.1	349.2
62.5°	331.1	322.8	314.4	307.0	306.5
65°	288.5	279.6	272.2	267.1	267.6
67.5°	250.0	242.5	234.2	232.8	233.3
70°	213.8	205.9	199.9	203.1	205.4
72.5°	179.5	175.3	171.1	175.8	179.0
75°	151.2	147.5	144.2	150.7	154.9
77.5°	125.2	122.4	122.0	127.5	131.2
80°	100.6	97.4	98.8	105.3	108.5
82.5°	76.5	74.2	74.7	82.6	84.9
85°	51.5	50.6	51.9	58.9	59.4
87.5°	27.4	27.4	28.3	32.5	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)